RP1300 User's Full Manual

MODEL:	Phase:	Originator:	Dept.	DATE:
RP1300 SERIES *ADD Model* *(RP1300)*				JUL 10th ,2013

Rugged & Professional

RP1300 Integrator Manual

July 19, 2013

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The R&TTE Directive

The European Radio equipment and Telecommunications Terminal Equipment (R&TTE) Directive (1999/5/EC) was published in the Official Journal of the European Communities on 7 April 1999. It covers all radio equipment and all equipment intended to be connected to public telecommunications networks

The R&TTE Directive relies for its operation on Harmonized Standards developed by the recognized European Standards Organizations. These Harmonized Standards define technical characteristics which can be used to meet the essential requirements of the Directive

Revision History

Changes to the original manual are listed below:

Version	Date	Description
Rev 1.0	13/01/29	Card slot image

CE 0984

iPod touch can be used in the following European Community and EFTA Countries:

AT	BG	BE	CY	CZ	DK	EE	FI	FR	DE	GR	HU
IE	IT	LV	LT	LU	MT	NL	PL	PT	RO	SK	SL
ES	SE	GB	IS	LI	NO	CH					

Wideband Data Transmission systems
2400.0-2483.5 MHz

France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy		For private use, a general authorisation is required if WAS/RLAN's are used outside own premises. For public use, a general authorisation is required
Luxembourg	Implemented	General authorisation required for network and service supply
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation		Only for indoor applications

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About This Guide

Introduction

This Integrator Guide provides information about setting up and configuring the RP1300 and its accessories.

NOTE. Screens and windows pictured in this guide are samples and can differ from actual screens.

Software Versions

This guide covers various software configurations and references are made to operating system or software versions for:

- Adaptation Kit Update (AKU) version
- OEM version
- Phone version
- BT version
- Fusion version.

Build Version/Software Name and Version

AKU Version

To determine the Adaptation Kit Update (AKU) version:

Tap **Start** > **Settings** > **System** > **About** icon > **Version** tab.

The second line lists the operating system version and the build number. The last part of the build number represents the AKU number. For example, Build 29058.5.3.12.8 indicates that the device is running AKU version 21903 5.0.92.

System Version

To determine the OEM software version:

Tap **Start** > **Settings** > **System tab** > **System Info icon**

Service Information

If you have a problem with your equipment, contact Gen2wave Enterprise Mobility support for your region. Contact Information is available at: http://www.gen2wave.com/

Gen2wave responds to calls by e-mail, telephone or fax within the time limits set forth in support agreements.

Getting Started

Introduction

This chapter provides information about the RP1300, accessories, charging, and resetting the RP1300.

RP1300 Specifications

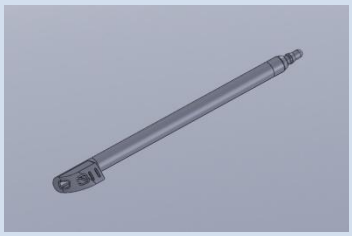
Performance Characteristics		**Battery(4000mA) Performance**	
CPU	Samsung S5PV210 1GHz	Standby time	220 hours
OS	Windows®Embeded Handheld 6.5.3	Talk time	10 hours
Memory	256MB SDRAM (512MB Optional) 1G ROM	User profiles	Outdoor WAN+GPS, 15min/hour voice communication, 10kB transmission every 10 min, and GPS on all time, 10.5 hours of operation. Outdoor Voice, 15 min/hour voice communication, 10.5 hours of operation and 150 hours standby time.
Communication Interface	USB HOST 2.0 FULL SPEED USB Client 2.0 HIGH SPEED Ext. Serial RS232C		
Physical Characteristics		**User Environment**	
Dimensions	139mm H X 73mm W X 21mm D	Sealing	
Weight	270 gram with 1860mAH battery 315 gram with 4000mAH battery	Drop Spec.	1.5M drop to concrete. 2 drops per 6 sides
Display	3.5inch. QVGA (VGA)	Operating Temp. Main	-20°C ~ +60°C
Input	Touch Panel, 4 side keys, power key	Operating Temp. Storage	-25°C ~ +70°C
Battery	Standard : 1860mA/h ,3.7V,Li-ion Extended : 4000mA/h ,3.7V,Li-ion Build-in backup battery : 200mA/h,3.7V, (polymer)	AC Power	Input : AC 100 ~ 240V, 50 ~ 60Hz Output : DC +5.0V, 3.5A
Expansion Slot	High capacity micro SD Card	Relative Humidity	5% ~ 80%
Audio	Speaker / Receiver / MIC		
Wireless (WWAN)	HSPA+ 2100MHz EDGE GPRS GSM 900MHz/1800 MHz		
Bluetooth	Class 2 (2402MHz~2480MHz) Fully Qualified Bluetooth v2.1+EDR system (Intenna, BT Headset support)		
Wireless LAN	2.4GHz 802.11 b/g/n	**1D Laser Scanner (IS4813)**	
GPS	Embedded A-GPS	Signal Output	Digital, industry standard
Notification	Vibration and Charging LED	Resolution:	5 mil (0.127 mm)
Scanner	1D Laser Type 2D Imager	Roll:	42°
Color Camera		Pitch Angle:	68°

Resolution:	5.0 megapixel	Yaw	52°
Illumination:	User controllable flash	Light Source	Visible Laser Diode 650 nm
Lens:	Auto Focus	Scan Rate	100 scan lines per second
2D Imager Engine (5100SR-110R)		Sweep Angle	54° minimum
Focal Distance	7 inches (17.8cm) from lens plate	Ambient Light Levels	4842 Lux (450 foot-candles)
Sensor Resolution	752 x 480 pixels	Typical Performance* Narrow Width Depth of Field	5.2 mil 70 mm - 95 mm (2.8″ - 3.78″) 7.5 mil 57 mm - 171 mm (2.3″ - 6.8″) 10.4 mil 50 mm - 210 mm (2.0″ - 8.3″) 13 mil 50 mm - 254 mm (2.0″ - 10.0″) 19.5 mil 75 mm - 300 (3.0″ - 11.8″)
Image Sensor	752 X 480 CMOS sensor	* Performance may be impacted by bar code quality and environmental conditions	
Motion Tolerance	4 in. (10.2cm) per second	**Regulatory**	
Rotational Sensitivity	360°		
Viewing Angle	+40°		
Ambient Light Immunity	Total darkness to 100,000 lux (full sunlight)		
Illumination LEDs	626nm +30nm		
Aiming	LEDs: 526nm +30nm		
	Laser: 650nm +10nm		
Peripherals and Accessories			
Communication	USB Client 2.0 HIGH SPEED		
Battery Chargers:	1-slot battery charger Cradle		
Interactive Sensor Technology			
Motion-sensor: 3-axis accelerometer that enables motion-sensing applications for dynamic screen orientation, and Magnetic Field Sensor, power management and free-fall detect.			

Unpacking the RP1300

Carefully remove all protective material from the RP1300 and save the shipping container for later storage and shipping. Verify that you received the following equipment:

- RP1300
- Lithium-ion battery
- stylus
- Quick Start Guide

RP1300 SRRIES *ADD MODEL (RP1200)*	
BATTERY	
STYLUS	
Quick Guide	

Getting Started

To start using the RP1300 for the first time:

- Install a microSD card (optional)
- Install the SIM card
- Install the main battery.
- Charge the RP1300.
- Power on the RP1300.

Installing a microSD Card

The microSD card slot provides secondary non-volatile storage. The slot is located under the battery pack. Refer to the documentation provided with the card for more information, and follow the manufacturer's recommendations for use.

CAUTION Follow proper ESD precautions to avoid damaging the SD card. Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded

To install the microSD card:

Installing the SIM Card

★ NOTE RP1300 configuration only

GSM phone service requires a Subscriber Identification Module (SIM) card, or smart card. Obtain the card from the your service provider. The card can contain the following information:

- Mobile phone service provider account details.
- Information regarding service access and preferences.
- Contact information, which can be moved to Contacts on the RP1300.
- Any additional services to which you have subscribed.

★ NOTE For more information about SIM cards, refer to the service provider's documentation.

To install the SIM card:

Installing the Battery

★ NOTE The RP1300 ships with either a 1860 mAh or 4000 mAh battery. The 1860 mAh battery is shown in this installation procedure.

To install the battery.

Insert the battery, top first, into the battery compartment in the back of the RP1300.
Press the battery down into the battery compartment
Lock the Battery Release Latch

Charging the Main Battery

Before using the RP1300 for the first time, charge the main battery until the amber Charging/Battery Status LED remains lit (see Table 1-1 for charge status indications). To charge the RP1300, use a cable or a cradle with the appropriate power supply. For information about the accessories available for the RP1300, see Accessories Chapter.

For cable and cradle setup and charging procedures see Accessories Chapter for more information.

Charge Only Cable

Single Slot USB Cradle

To charge the main battery:

Connect the charging accessory to the appropriate power source.

Insert the RP1300 into a cradle or attach to a cable. The RP1300 begins charging.

The Charging/Battery Status LED red while charging, then turns LED green when fully charged. See Table 1-1 for charging indications.

The 1860 mAh battery fully charges in approximately four hours and the 4000 mAh battery fully charges in approximately six hours.

Table 1-1 LED Charge Indicators

Charging/Battery Status LED	Indication
Off	RP1300 is not charging. RP1300 is not inserted correctly in the cradle or connected to a power source. Charger/cradle is not powered.
Red LED	RP1300 is charging.
Green LED	Charging complete

Do not use any other charger except one (5.0V / 3.5A) provide.
Make sure to handle it gentle; damage with excessive force may cause no warranty.
Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
When attached battery is completely discharged, plug charger to main body, then reset the device to check if screen is back on.

Charging Spare Batteries

See Accessories for information on using accessories to change spare batteries.

Charging Temperature

Charge batteries in temperatures from 0°C to 40°C (32°F to 104°F). Note that charging is intelligently controlled by the RP1300.

To accomplish this, for small periods of time, the RP1300 or accessory alternately enables and disables battery
charging to keep the battery at acceptable temperatures. The RP1300 or accessory indicates when charging is disabled due to abnormal temperatures via its LED. See Table 1-1.

Powering On the RP1300

After inserting the battery or when turning the RP1300 on for the first time, the splash screen displays for about a minute as the RP1300 boots, then the calibration window appears.

Calibrating the Screen

NOTE To calibrate the screen so the cursor on the touch screen aligns with the tip of the stylus:

Remove the stylus from its holder on the side of the RP1300.
Carefully press and briefly hold the tip of stylus on the center of each target that appears on the screen.
Repeat as the target moves around the screen, and then tap the screen to continue.

Checking the Battery Status

The easiest way to check the status of your battery is to look at the battery icon on the status bar of your RP1300.

Battery Icon Status

Icon	Status
	Battery is fully charged.
	Battery has a medium charge. You should be able to work for several more hours before changing batteries.
	Battery is low. You need to charge or replace the battery soon.
	Battery is critically low. You need to replace the battery now.
	Battery is charging.

Resetting the RP1300

You rarely need to reset the computer. If the computer or an application lock up, you may need to reset the RP1300. The RP1300 uses the configuration currently saved in flash memory during the boot process. There are three ways to reset the RP1300:

- Soft Reset
- Hard Reset
- Clean booting

If the RP1300 is not functioning properly, perform a reset first. If the RP1300 still does not respond, perform a hard reset.

Performing a Soft Reset Boot

You may need to perform a Soft Reset boot to correct conditions where an application stops responding to the system.

To perform a Soft Reset boot:

Using the stylus, press the **Soft Reset** button.

The RP1300 systematically shuts down.

The computer goes through the initialization process and restarts.

Splash Screen (Reset)

Performing a Hard Reset

To perform a Hard reset boot:

Hold down the red Power button, and press the Reset button.

Splash Screen (Hard-reset)

Performing a Clean Boot

A clean boot resets the RP1300 to the factory default settings. All data in the Application folder is retained.

Caution

The clean boot process erases the RP1300 memory, including all applications and data files in the object store. To preserve applications through a clean boot, store them in the Flash File Store.

To perform a clean boot:

1. Keeping pressing on the volume down button, press the reset button one time.

2. You can see the '**System Setup Screen**'.
3. Select **'2. Clean Boot'** and then press **enter** button.
4. When prompted, tap the screen to set up the RP1300.
5. Follow the instructions to calibrate the screen

RP1300 Service Verification

RP1300 phone and data services require a live SIM card, obtained from a service provider, installed in the RP1300 phone. The SIM card has embedded circuitry on one side of its surface which, when inserted into an RP1300 phone, provides phone service. The SIM card provides a phone number, determines the features or services available to the subscriber, and identifies the subscriber to the network.

In addition to SIM card installation, the RP1300 may require various settings to operate as a phone with data connection features.

Ensuring Network Coverage

1. Ensure an activated SIM card, from the phone service provider, is installed in the RP1300.
   NOTE The SIM card must be enabled to connect to the network.

2. Verify active phone and data services by tapping to display the **Phone** dialog. The Carrier name appears in the dialog box.

Connectivity Dialog

3. Verify SIM card functionality:
   A. Tap **Start** > **Settings** > Personal > **Phone** icon > **Network** tab.

Phone Settings Window - Network Tab

B. Ensure the service provider's network appears in the Current network: field.

C. If the network does not appear, tap Find Network. If the network still does not appear, verify that the SIM card was installed correctly. If it was, and no network appears, contact the service provider.

Configuring a Data Connection

Connecting to an ISP

You can connect to your Internet Service Provider (ISP), and use the connection to send and receive e-mail messages and view web pages.

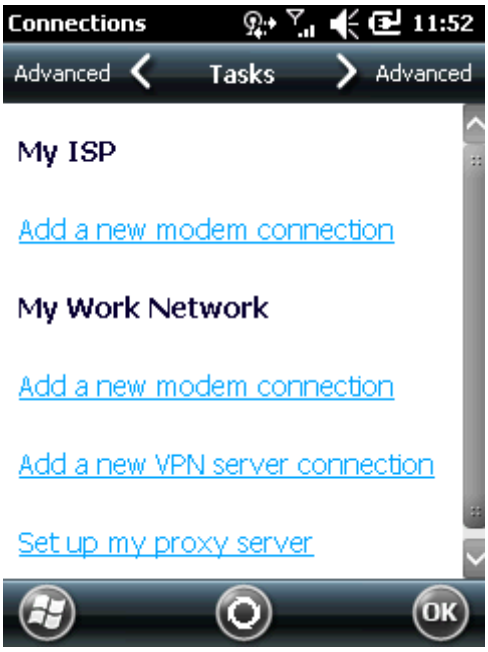
Get an ISP dial-up access telephone number, a user name, and a password from your ISP.

Tap the **Help** icon at any time to view additional information for the wizard or the settings.

To connect to an Internet service provider

1 Tap Start > Settings > Connections > Connections.

2 Under My ISP, tap Add a new modem connection.



3 Enter a name for the connection, such as "ISP Connection."

4 If using an external modem connected to your RP1300 with a cable, select Hayes Compatible on COM1 from the Select a modem drop-down list.

5 Tap **Next**.

6 Enter the access phone number and then tap **Next**.

7 Enter the **User name**, **Password**, and **Domain** (if provided by an ISP or your network administrator).

8 Tap **Finish**.

9 Tap the **Advanced** tab from the Connections screen and then tap **Dialing Rules**.

10 Select **Use dialing rules**, tap **ok** at the dialog box, and then tap Edit.

11 Specify your current phone type and then tap ok until you exit and return to the Settings page.

Once the RP1300 is connected, you can:

- send and receive message by using Messaging (Outlook E-mail).
- visit web pages by using Internet Explorer Mobile.

Connecting to a Network With a VPN Server

A VPN connection helps you to securely connect to servers, such as a corporate network, through the Internet. Before you can make a VPN connection, you will need the following items from your network administrator:

- User name
- Password
- Domain name
- TCP/IP settings
- Host name or IP address of the VPN server

To create a VPN server connection to work

1 Tap **Start** > **Settings** > **Connections**.

2 Under My Work Network, tap Add a new VPN server connection.

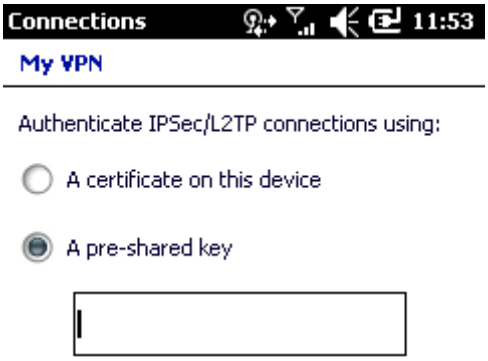
3 In the **Name** field, enter a name for the connection, such as your company name.

4 In the **Host name** / IP field, enter the VPN server name or IP address.

5 Select the **VPN type** of authentication to use with your RP1300. If you are not sure which option to choose, check with your network administrator.

6 Tap **Next**.

7 Select a way for the RP1300 to authenticate the connection. If you select **A pre-shared key**, enter the key provided by your network administrator.



8 Click **Next**.

9 Enter the **User name**, **Password**, and **Domain** (if provided by an ISP or your network administrator).

10 Tap **Finish**.

RP1300 Settings

Use the **Phone Settings** window to customize settings, such as the ring type and ring tone for incoming calls, security options, and other options depending on the type of service.

Phone Tab

Use the **Phone** tab to customize ring type, ring tone, keypad tone, and security options.

Tap **Start** > **Settings** > **Personal** tab > **Phone** icon > **Phone** tab

or

Start > **Phone** > **Menu** > **Options** > **Phone** tab.

Phone Window - Phone Tab

Sounds

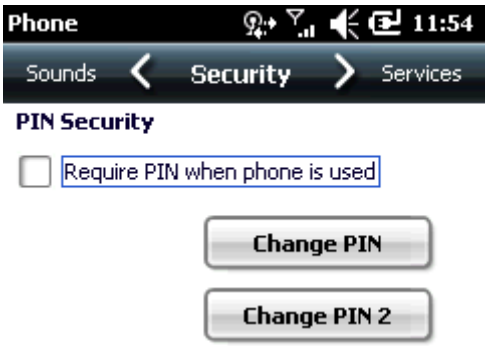
1. **Phone Number** automatically displays on the **Phone** tab when a live SIM card is installed.
2. Select a ring type from the **Ring type**: drop-down list. The ring type changes the way the RP1300 rings when you receive an incoming call. Regardless of the ring type selected, a dialog box appears on the RP1300's display for incoming calls.
3. Select a ring tone for incoming calls from the **Ring tone**: drop-down list. To hear a sample of the selected ring tone, tap ▶ . Tap ■ to end the ring tone.
4. Select a keypad tone from the **Keypad**: drop-down list. This selection determines the tone that sounds when entering a phone number on the keypad.
   Select **Short tones** or **Long tones** to specify the duration of the sound when you press a number on the keypad. Select **Off** to disable tones.

   NOTE Turning off sounds saves power and prolongs battery life.

Security Tab

Enabling a PIN

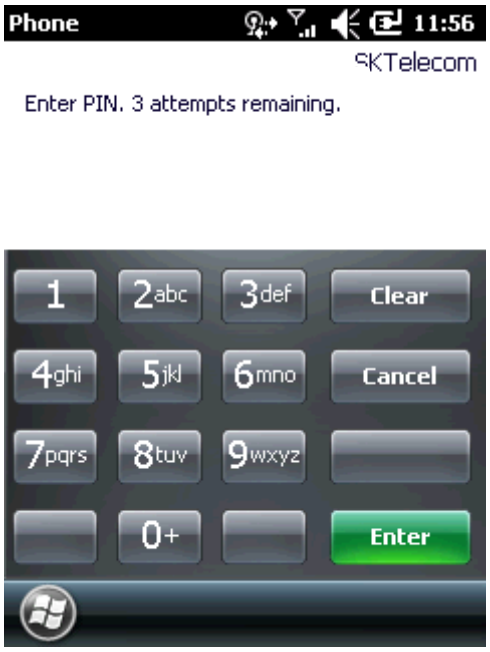
NOTE Place emergency calls at any time, without requiring a PIN or a SIM card.



Security Tab

To require a PIN when using the phone:

1. From the Security tab, select **the Require PIN when phone is used** check box under **PIN Security**.



Enter PIN

2. Use the touch keypad to enter a four to eight digit PIN.

3. Tap Enter to enable the PIN and return to the Phone tab.

Changing a PIN

CAUTION: If you enter an incorrect PIN, the message "SIM PIN incorrect: Try again" appears. After three consecutive incorrect attempts, the SIM card is blocked. The phone does not allow you to attempt to enter your PIN again and you must obtain a PIN Unblock Key from your service provider.

1. From the **Security** tab (*Phone Window - Phone Tab*), tap **Change PIN**.
2. Use the touch keypad to enter the current PIN.
3. Tap **Enter**.
4. Use the touch keypad to enter a new four to eight digit PIN.
5. Tap **Enter**.
6. Reenter the new PIN for confirmation and tap **Enter**.
7. Tap **ok** to confirm the change.

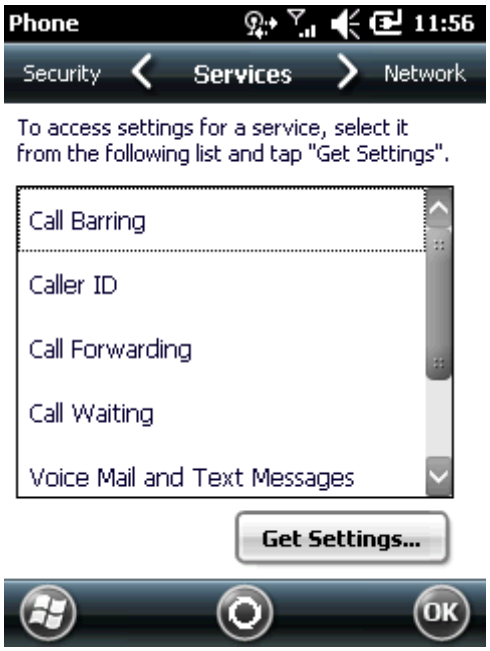
Disabling a PIN

1. From the **Security** tab, deselect the **Require PIN when phone is used** check box.
2. Use the touch keypad to enter the current PIN.
3. Tap **Enter**.
4. Tap **ok** to confirm the change.
5. Tap **ok** to exit settings.

Services

Use the *Services* tab to configure settings for subscribed phone services. For example, block certain types of incoming and/or outgoing calls, disclose the caller's identity when making outgoing calls, forward incoming calls to a different phone number, receive notification of incoming calls when a phone session is in use, and set up voice mail and short message service.

1. Tap **Start** > **Settings** > **Personal** tab > **Phone** icon > **Services** tab.
   or
   Start > **Phone** > **Menu** > **Options** > **Services** tab.

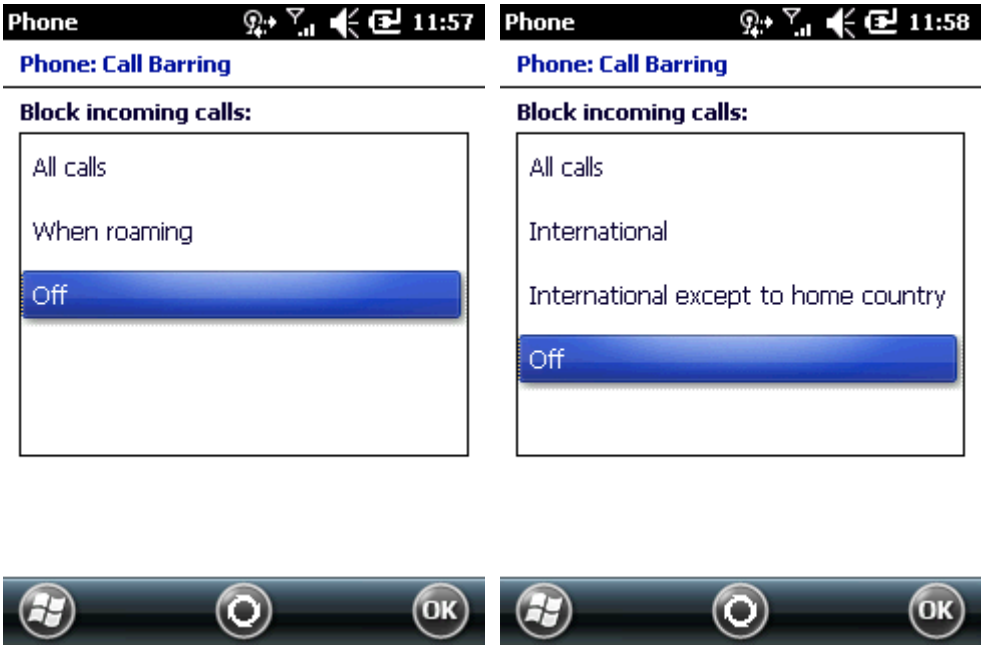


Phone Window - Services Tab

2. Select a service from the list and tap **Get Settings...** .
3. Change services settings as follows.

Call Barring (Call Blocking)

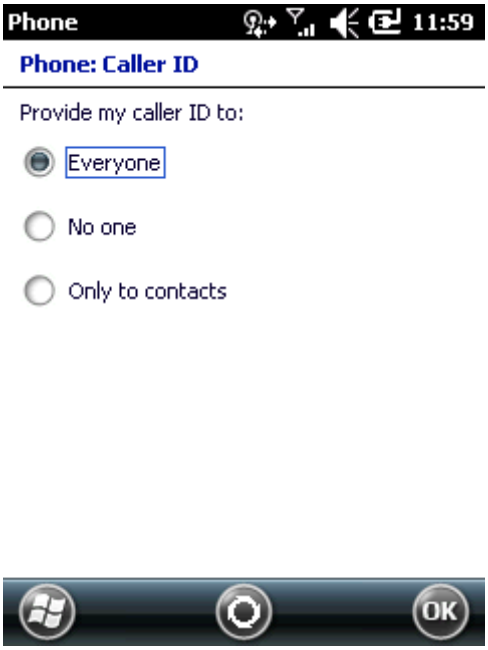
Use call barring to block certain types of incoming and/or outgoing calls. Select the type of incoming and/or outgoing calls to block.



Call Barring

Caller ID

Enable caller ID to reveal the identity of the person making an outgoing call. Select the **Everyone** radio button toalways display the caller ID. Select the **No one** radio button to prevent the caller's identity from appearing to others.



Caller ID

Call Forwarding

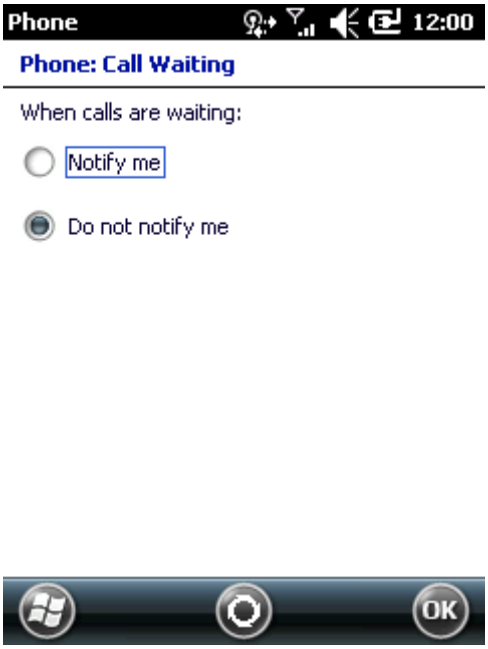
NOTE Call Forwarding may not be available on all networks. Check with your service provider for availability.

- Use call forwarding to forward incoming calls to a different phone number.
- To forward all calls to a different phone number:
- select the **Forward all incoming phone calls** check box.
- enter the phone number to receive forwarded calls in the **To:** text box.
- To forward incoming calls to a different phone number based on a specific situation, select one or more of the check boxes under **Forward phone calls only if:**.
- **No answer:** enter the phone number to receive forwarded calls only when the phone cannot be
- answered. Then select a time period from the **Forward after:** drop-down list. Options are 5, 10, 15, 20, 25, and 30 seconds.
- **Unavailable:** enter the phone number to receive forwarded calls only when the phone is turned off or the user is unreachable.
- **Busy:** enter the phone number to receive forwarded calls only when the line is busy.

Call Waiting

NOTE Call Waiting may not be available on all networks. Check with your service provider for availability.

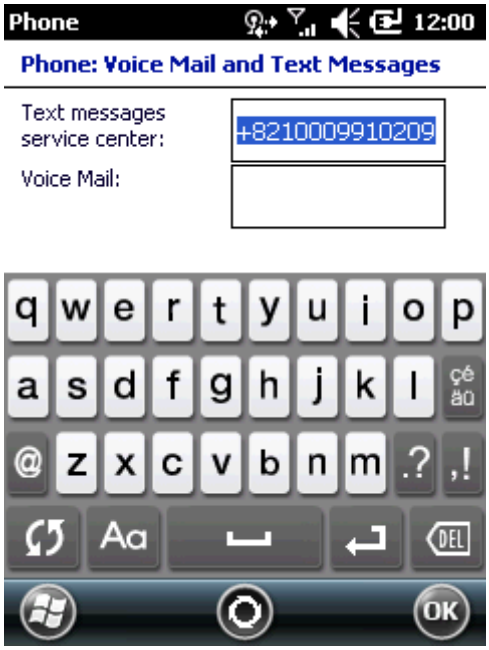
Call waiting notifies you of an incoming call when the phone is in a phone session. Select the **Notify me** radio button to enable call waiting. Select the **Do not notify me** radio button to disable call waiting.



Call Waiting

Voice Mail and Text Messages

To use voice mail and send short messages, enter the voice mail and/or text message phone number in the appropriate text boxes.



Voice Mail and Text Messages

Fixed Dialing

Use Fixed Dialing to restrict the phone to dial only the phone number(s) or area code(s) specified in a Fixed Dialing list.

1. Select **Fixed Dialing** and tap **Get Settings**.
2. Select the Enable fixed dialing check box.
3. To add a number to the list, tap Menu > Add.
4. Enter the phone number or area code to restrict and tap Done.
5. Repeat steps 3 and 4 to add more numbers, and tap Done twice when complete.
6. Enter PIN2 and tap Done.

Network

Use the **Network** tab to view available networks, determine the order in which the phone accesses another network if the current network is unavailable, and specify whether to change networks manually or automatically.

The current network remains active until it's changed, the signal is lost, or the SIM card is changed.

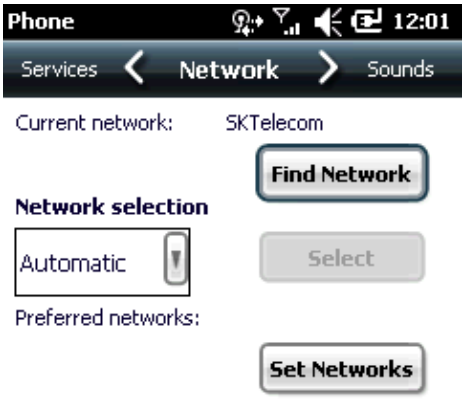
The network the RP1300 currently uses appears in the **Current network:** field at the top of the window.

Changing Networks Manually

1. Tap **Start** > **Settings** > **Personal** tab > **Phone** icon > **Network** tab

   Or

   Start > **Phone** > **Menu** > **Options** > **Network** tab.



Phone Window - Network Tab

2. From the **Network selection** drop-down list, select Manual.

Choose Network

3. From the **Choose Network** window, select the network to use.
4. Tap **OK**.

Viewing Available Networks

To view all wireless networks available:

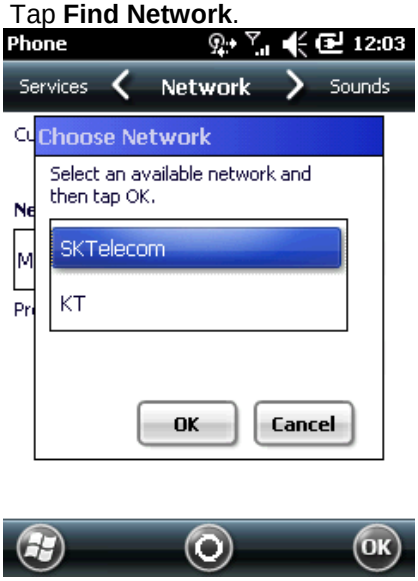
1. Tap **Start** > **Settings** > **Personal** tab > **Phone** icon > **Network** tab.

   or

   Start > **Phone** > **Options** > **Network** tab.

Phone Window - Network Tab

2. Tap **Find Network**.



Choose Network

3. From the **Choose Network** window, select the network to use.
4. Tap **OK**.

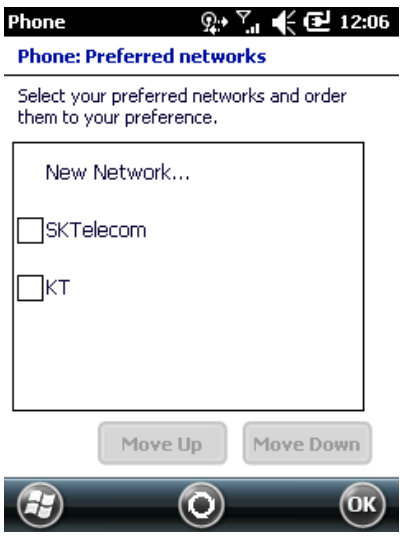
Setting Preferred Networks

Set networks in a preferred order of access. Setting preferred networks allows the RP1300 to access a second preferred network if the first is unavailable.

1. Tap Start > Settings > Personal tab > Phone icon > Network tab
   or
   Start > Phone > Menu > Options > Network tab.

Phone Window - Network Tab

2. Tap **Set Networks** to view all available networks.



Preferred Networks

3. Select the preferred networks by tapping one or more check boxes.
4. Tap **Move Up** and **Move Down**, as necessary, to place the selected networks in the preferred order.
5. Tap **ok** to send the new settings to the network.
6. From the **Network** tab, select **Automatic** from the **Network selection** drop-down list.
7. Tap **ok** to exit settings.

Via Wireless LAN

- You can use the Wireless Network Via Wireless LAN.
- supports IEEE 802.11b and 802.11g and 802.11n..
- To connect the Wireless LAN (AP must be on and functioning)

Accessories

Introduction

This chapter provides set up information for the following RP1300 accessories:

- **Charge Only Cable** - Provides power to the RP1300.
- **USB Charging Cable** - Provides power to the RP1300 and USB communication with a host computer.
- **Single Slot Modem/USB Cradle** - Charges the RP1300 main battery and a spare battery. Synchronizes the RP1300 with a host computer through an Modem or USB connection.

Single Slot USB Cradle

This section describes how to set up and use a Single Slot USB cradle with the RP1300. For USB communication setup procedures see ActiveSync Chapter.

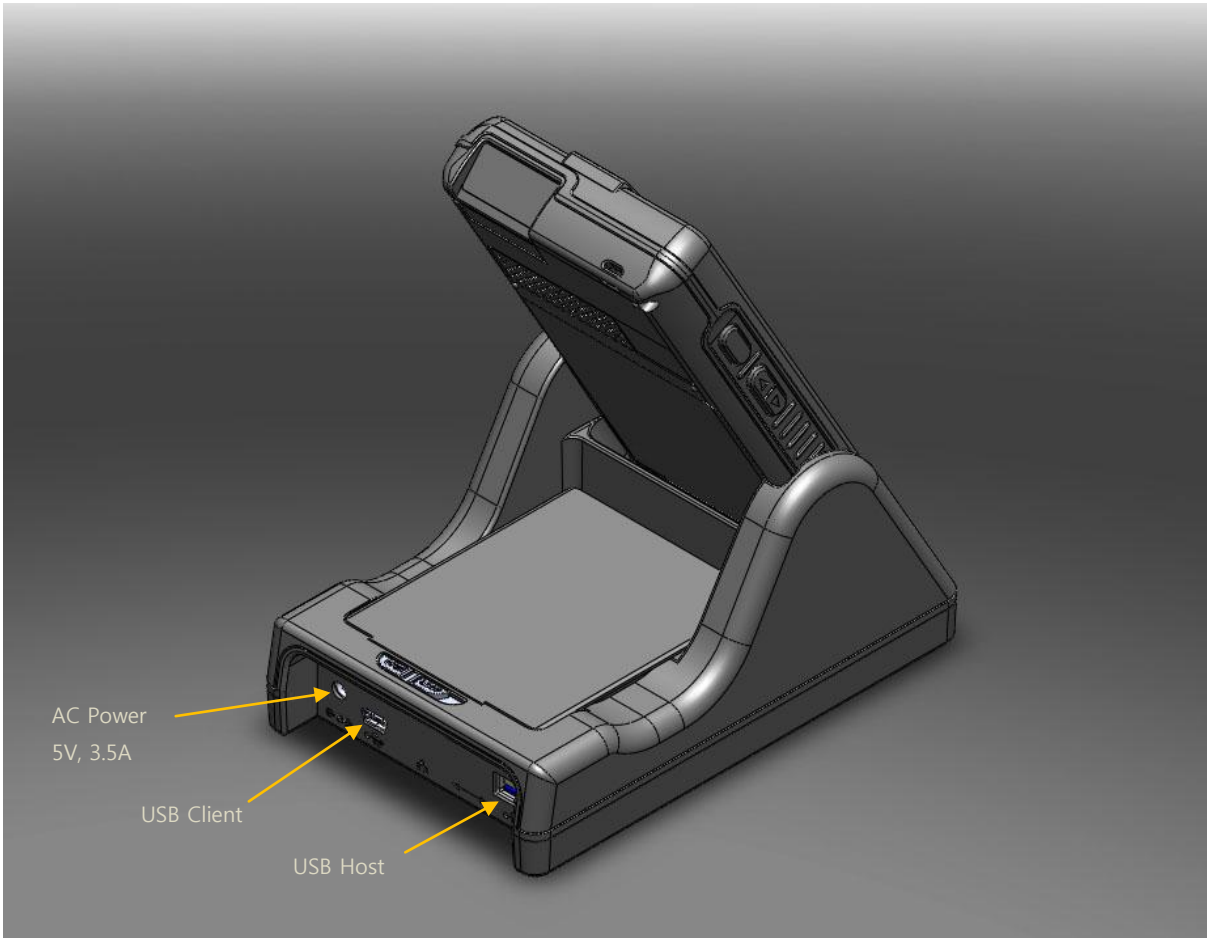
The Single Slot USB cradle:

• Synchronizes information between the RP1300 and a host computer. See ActiveSync Chapter for information on setting up a partnership between the RP1300 and a host computer.

• Charges the RP1300's battery.

• Charges a spare battery.

Setup



Single Slot USB Cradle Power and USB Connections

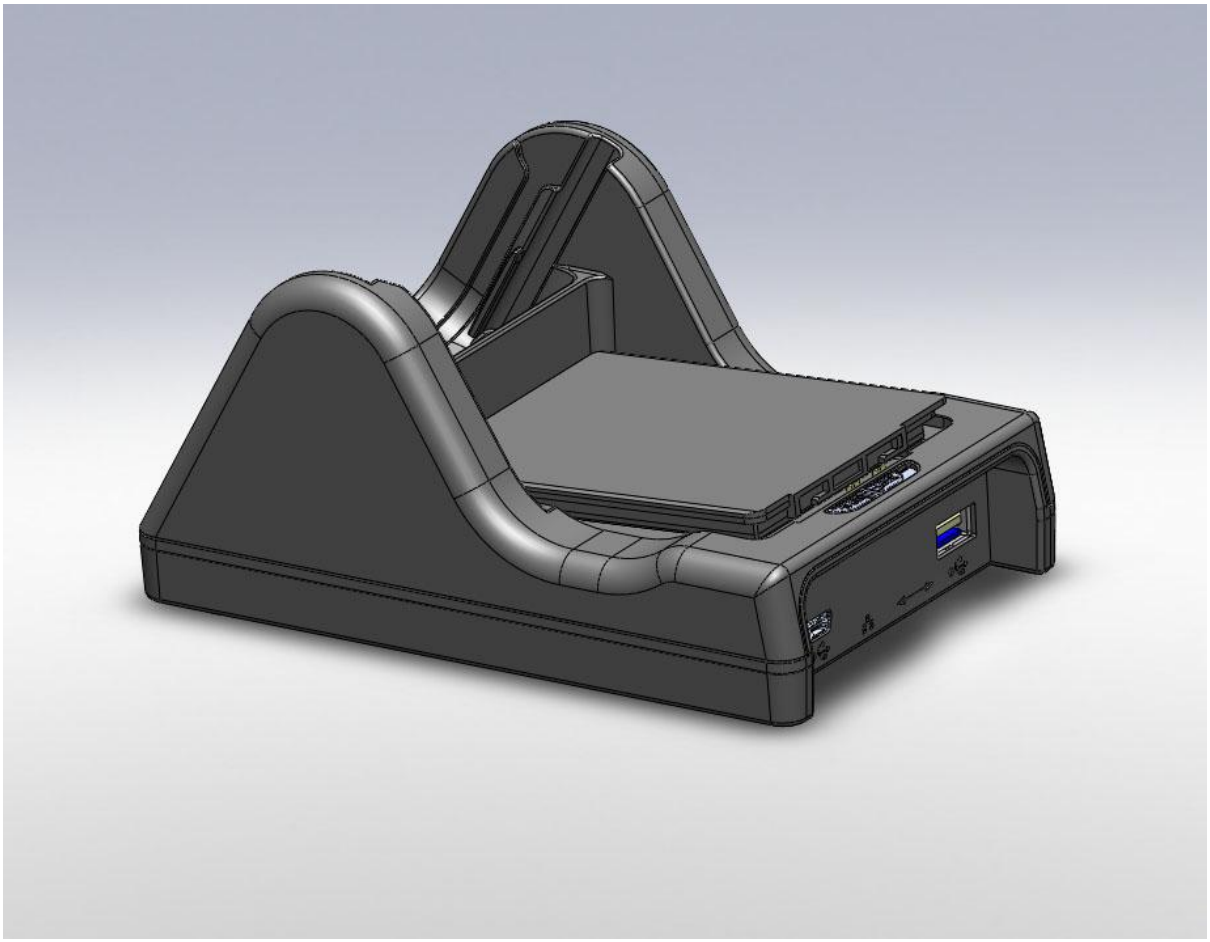
- Select switch on right : USB Host

Charging the RP1300 Battery

Connect the cradle to power. Insert the RP1300 into the RP1300 slot to begin charging.

Charges the RP1300's battery

Charging the Spare Battery

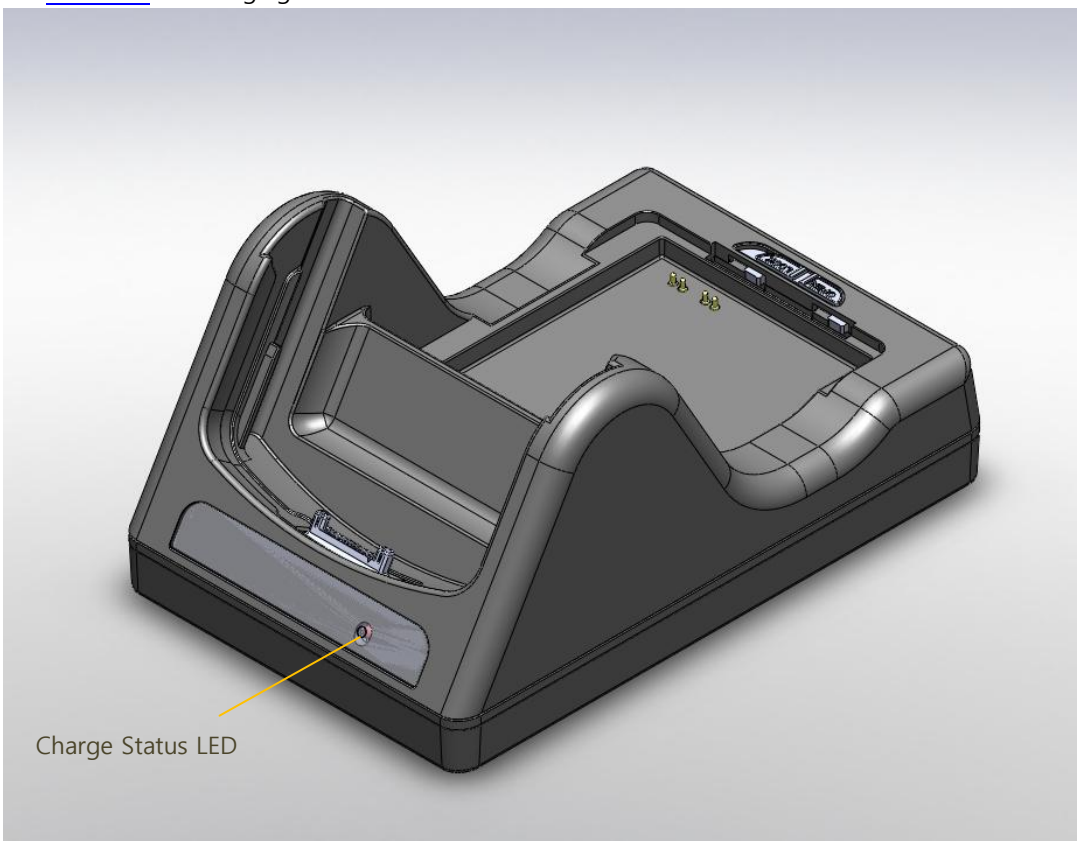


Spare Battery Charging

Battery Charging Indicators

The Single Slot USB cradle charges the RP1300's main battery and a spare battery simultaneously.
The RP1300's Charging/Battery Status LED indicates the status of the battery charging in the RP1300. See Table 1-1 for charging status indications.

The spare battery charging LED on the cradle indicates the status of the spare battery charging in the cradle. See Table 2-1 for charging status indications.



Charging Temperature.
Charge batteries in temperatures from 0°C to 40°C (32°F to 104°F). Charging is intelligently controlled by the RP1300. To accomplish this, for small periods of time, the RP1300 or accessory alternately enables and disables battery charging to keep the battery at acceptable temperatures. The RP1300 or accessory indicates when charging is disabled due to abnormal temperatures via its LED. See Table 1-1 and Table 2-1.

Table 2-1 Spare Battery LED Charging Indicators

Spare Battery LED (on cradle)	Indication
Red LED	Spare battery is charging.
Green LED	Spare battery is fully charged.
Off	Not charging.

Charging and Communication

Insert the RP1300 into a slot to begin charging.

LED Charging Indicators

Charge LED

The RP1300's charge LED shows the status of the battery charging in the RP1300. See Table 1-1 for charging status indications.

Charging Temperature

Charge batteries in temperatures from 0°C to 40°C (32°F to 104°F). Charging is intelligently controlled by the RP1300.

To accomplish this, for small periods of time, the RP1300 alternately enables and disables battery charging to keep the battery at acceptable temperatures. The RP1300 indicates when charging is disabled due to abnormal temperatures via its LED. See Table 1-1.

Using the Computer

Adjusting the Volume of the RP1300

You can adjust the computer volume for your needs and your environment. The volume includes sounds you hear when you tap the screen or scan bar codes with a scanner. You can set the volume to off, very low, low, medium, high, very high (default), and vibrate.

You can use the Volume application (available from the navigation bar) or the Volume buttons (on the side of the RP1300) to change the volume of the computer.

Location of Volume Buttons on the RP1300

To adjust the volume with the Volume application

1 Tap the Volume ( ) icon at the top of the screen.

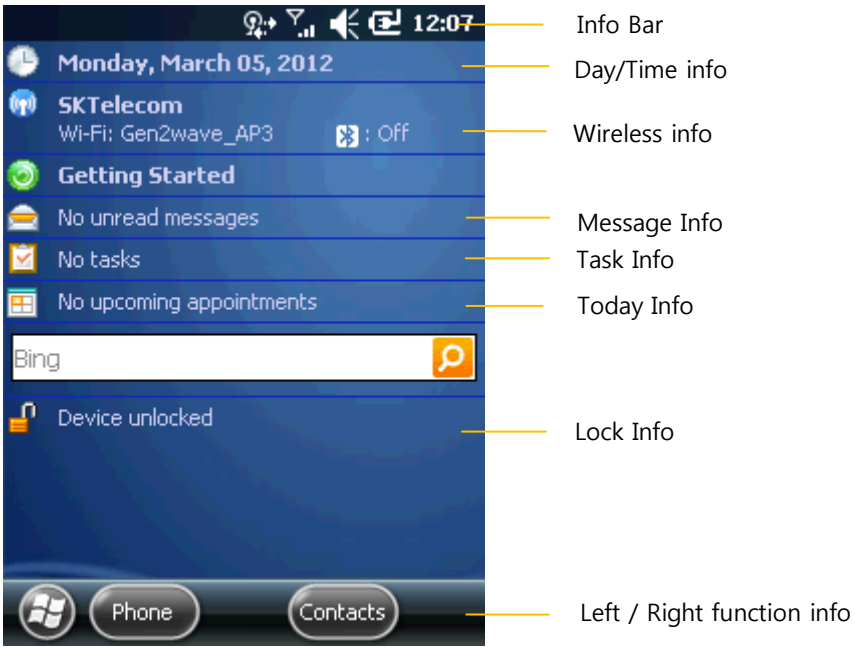
2 Use your stylus to adjust the volume slider to the volume you want, select **Vibrate**, or select **Off**.

To adjust the volume with the Volume buttons

- Press the upper side button to increase the volume.
- Press the lower side button to decrease the volume, set the volume to vibrate, or turn the volume off.

Using the Touch Screen

The RP1300 has a 480 x 640 pixel color touch screen display. Main Screen is set below



Windows Mobile 6.5 Start Screen

To turn the screen LCD on and off

- For the keypad, press power key

Configuring the Backlight Settings

By default, the RP1300 goes into Screen Off mode when there is no activity on the computer. Screen Off mode turns off the backlight and display. Press a key or tap the screen to resume activity.

To configure the backlight

1 Tap **Start** > **Settings** > **System** > the **Backlight** icon > the Battery Power tab.

2 With **Turn off backlight if device is not used for** checked, select the timeout value (30 seconds, or 1 to 5 minutes).

Using the Stylus

Your computer has a stylus for selecting items and entering information on the touch screen.

Functions You Can Perform With the Stylus

Action	Description
Tap	Touch the screen once with the stylus to select options, open or close applications, or launch menus from the Command bar.
Drag	Hold the stylus on the screen and drag across the screen to select text and images.
Tap and hold	Tap and hold the stylus on an item to see a menu of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

Understanding the Screen Icons

Use the screen icons on the navigation bar and the command bar to see the network connection status and other system information. For information about the battery icons, see "Checking the Battery Status". Some standard Microsoft icons are included in this table.

Screen Icons

Icon	Description
	The volume is turned off. To turn the volume back on, tap this icon and choose your setting.
	The computer is connected to the network.
	The computer is not connected to the network.
	The 802.11 radio is connected to the wireless network.

Aligning the Touch Screen

If the touch screen does not respond when you tap it with the stylus, you may need to calibrate the screen. Before you calibrate the touch screen, make sure the RP1300 screen is unlocked.

To calibrate the touch screen

1 Tap **Start** > **Settings** > **Systems** > **Screen**.

2 Tap **Align Screen** and follow the instructions to align the screen.

3 Click **ok**.

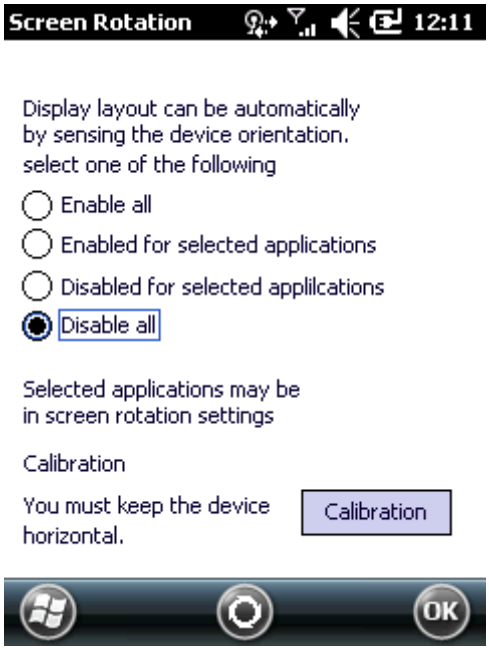
If the touch screen is so out of alignment that you cannot open the Start menu, you may need to align the screen menu using only the keypad.

Rotating the Screen

The internal accelerometer enables you to have the screen rotate by sensing the orientation of the RP1300. You can enable the screen to rotate all the time depending on orientation, you can enable it to rotate for specific applications, you can disable rotation for selected applications, or you can disable it.

To configure the screen rotation

1. Tap Start > Settings > Systems > TAS Config.



2. Calibration
3. Select the option ("Enable all") you want to use.

Reading Bar Codes

The RP1300 ships with an internal imager to read and enter bar code data.

To read a bar code

1. Press Power key to turn on the RP1300.
2. Point the scanner window at the bar code label, and hold the RP1300 steady a few inches from the label.
3. In File Explorer, Flash Disk > Scanner > ScanDemo > execute G2W_Scanner
4. Press the Scan button. The laser pointer and illumination beam and frame appear.
5. Use the laser pointer as a guide and aim toward the middle of the bar code. Make sure that the illumination frame covers the bar code you are trying to decode.
   When the RP1300 successfully reads a bar code label, you hear a high beep.
6. Release the Scan button.

Using the Color Camera

The high-quality 5.0 megapixel color camera with flash is a standard feature of the RP1300. You can take photos in high, normal, or low quality, with image sizes up to 2048 x 1536 pixels. When you take a picture, the images are saved as .jpg files and stored in the /MyDocuments/My Pictures folder.

Location of the RP1300 Color Camera

You can use the Pictures & Videos application on the RP1300 to take, view, and edit pictures or record and launch video clips stored on the RP1300 or a storage card. You can also send pictures and video clips to others or save an image as the background on the Today screen.

After you have opened up the camera application, you can configure camera options by tapping Menu. You can zoom in or out on an image while using either camera mode or video mode.

Function	Still	Video	Comment
Mode	Normal, Burst, Timer	N/A	Setting for taking photo
Brightness	-3, -2, -1, 0, +1, +2, +3		Setting for Brightness
Resolution	QCIF, QVGA, VGA, SVGA, XGA, SXGA, UXGA, QXGA	QCIF, QVGA	Setting for size
White Balance	Automatic, Sunny, Cloudy, Fluorescent, Incandescent		Setting for White Balance
Flash	Flash ON, Flash OFF		Setting for Flash ON/OFF
AF	Trig AF		Setting for Auto Focus

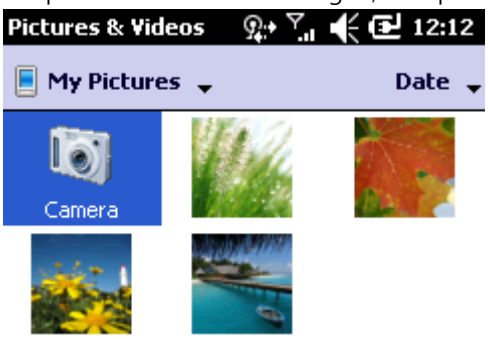
Caution

Camera is optional. On the device with no built-in camera, Camera function can not be used.

To take a picture with the camera

1 Tap **Start** > **Pictures & Videos**.

2 Tap the Camera icon in the grid, or tap Camera on the taskbar.



3 Using the screen as a viewfinder, move the camera until you have the image you want to capture.

4 Tap **Take Pic** on the taskbar or press Enter to save the image. If you select to save your pictures to Main memory, they are saved to permanent storage on the RP1300.

5 Auto Focus: Press and hold "Enter" key for 2~3 sec. till you hear sound "Tik" and then release the key.

To switch to Video mode

• Tap **Menu** > **Video** Mode.

The camera icon below the screen turns into a video camera and **Record** now appears in the taskbar.

To set options for saving pictures

1. From the Pictures & Videos application, tap **Menu** > **Options**.
2. Set these options:
   - (Optional) A filename prefix. The default prefix is .img.
   - Where you want to save picture files.
   - The still image compression level.
3. Click **ok**.

You can also set options for flash, video, quality, and some advanced options from the Settings menu.

Using a microSD Card

To install a microSD card

1. Remove the battery.
2. Insert the microSD card in the bottom slot.
3. Install the battery.
4. Turn on the RP1300

You should be able to navigate to the Storage Card folder and see the contents of the microSD card.

Enabling the Integrated GPS on the RP1300

The RP1300 comes equipped with an integrated Global Positioning System (GPS) receiver.

Using the A-GPS on the RP1300

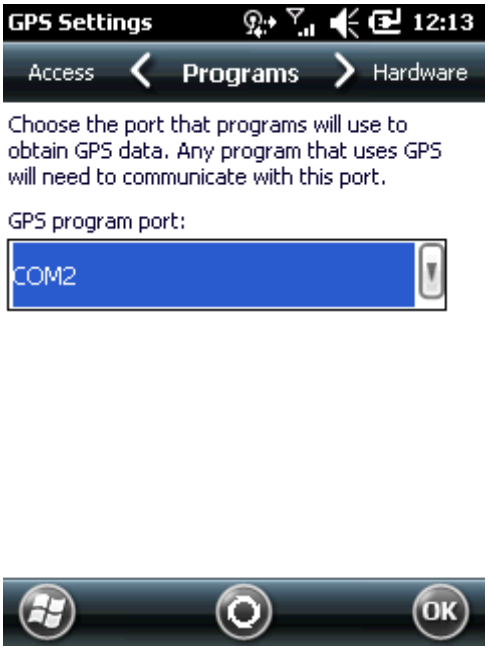
To use A-GPS, you need to set parameter in G2W.INI which is located in ***Flash Disk₩G2W_Setup.***

Remark:
G2W_INI is not directly settable on the RP1300.
To set INI parameter, you need to synchronize the RP1300 with your PC.
On the PC, you change INI parameter.
G2W_INI is convenient setting tool to control various functions
G2W_setup manual is available for download.

To configure your GPSID settings

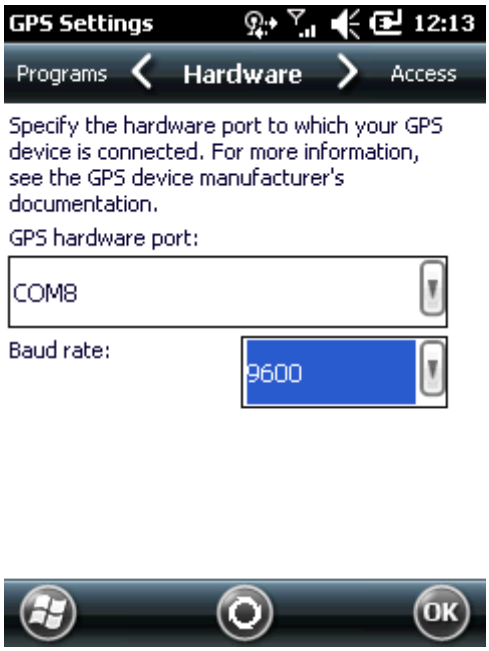
- Tap Start > Settings > System > External GPS

- Tap **External GPS**. The GPS Settings screen appears.
  - ✓ GPS program port: COM2 or COM9

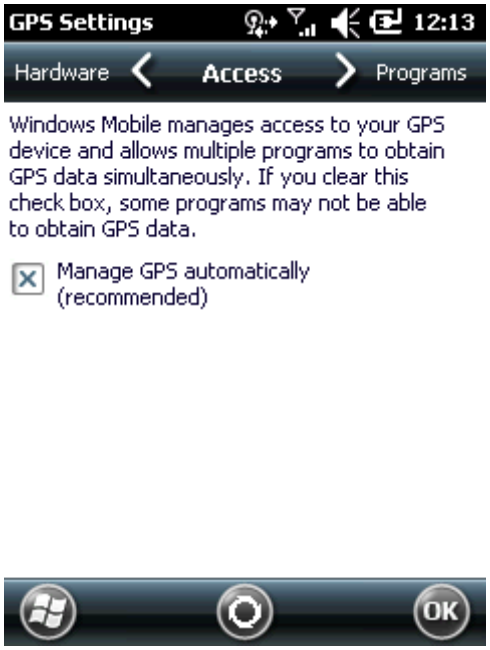


On the **Programs** tab, select the COM port that you want your programs to use to get GPS data from your RP1300.

1. Tap the **Hardware** tab, and confirm these default settings.
   GPS hardware port: COM8
   Baud rate: 9600



2. Tap the Access tab and select the Manage GPS automatically heck box.


GPS Settings
12:13
Hardware
Access
Programs
Windows Mobile manages access to your GPS device and allows multiple programs to obtain GPS data simultaneously. If you clear this check box, some programs may not be able to obtain GPS data.
Manage GPS automatically (recommended)
OK

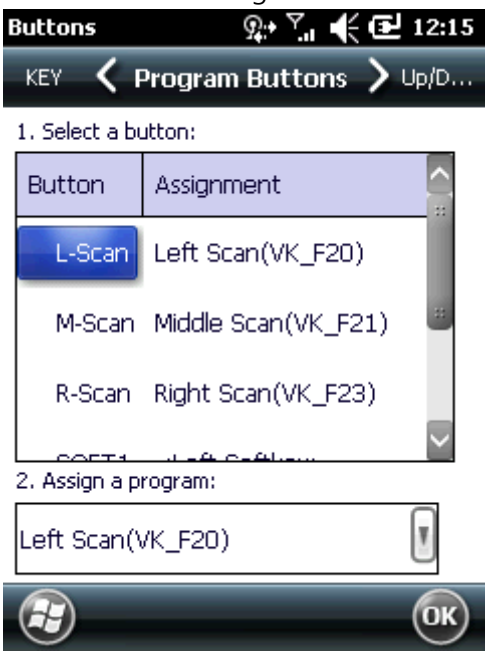
3. Tap **ok**.

Button Assign Function

- Assign Button : **L-Scan key, R-Scan key, Volume, Camera key, Call key, End key,**

■ Button Assign Method

1. Start Menu -> Settings -> Personal -> Buttons



2. Select a button in "1. Select a button" field.
3. In "2 Assign a program" field, select the program and press the "ok".

※ If you assign the Virtual keyboard, select the "<Input Panel>" in the "2 Assign a program" field.

Connecting and Configuring the RP1300

Use this chapter to understand how to configure the RP1300 to communicate in your network.

Connecting the RP1300 to a PC

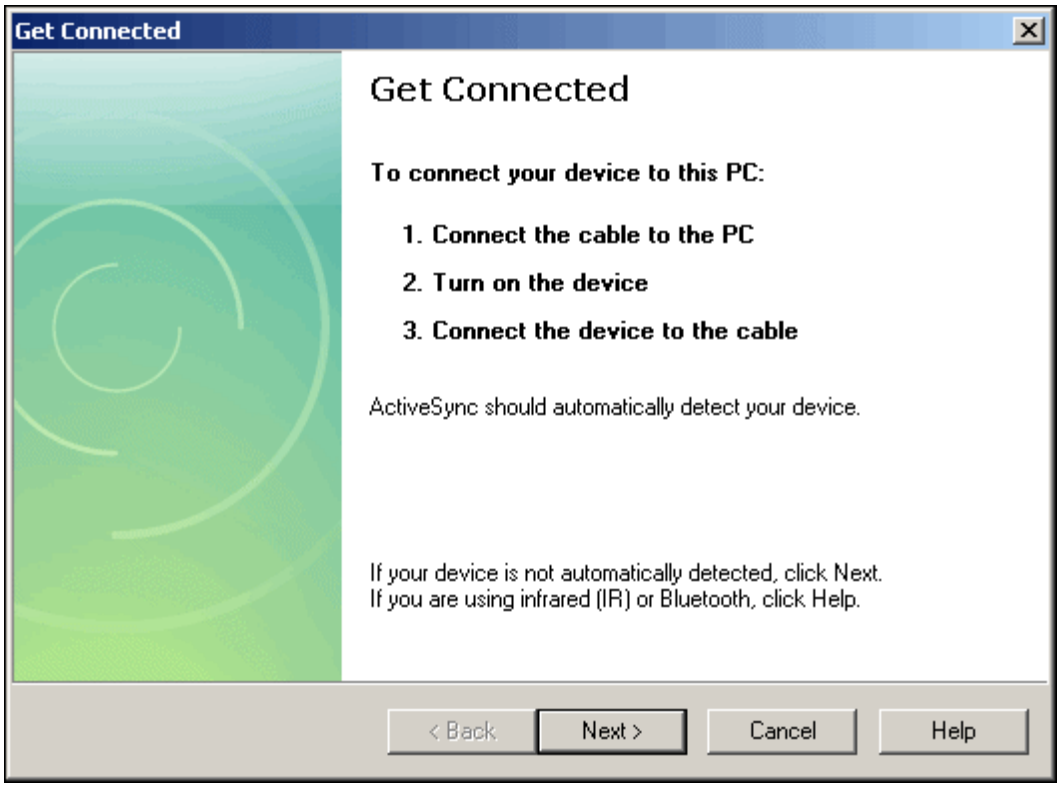
You can use Microsoft ActiveSync to establish a connection between your RP1300 and PC. ActiveSync lets you transfer files, synchronize files, remotely debug, and perform other device management activities. ActiveSync is a free application available from the Microsoft web site at www.windowsmobile.com/getstarted.

To establish an ActiveSync partnership between your RP1300 and PC, you need to physically connect your RP1300 to your PC using these accessories:

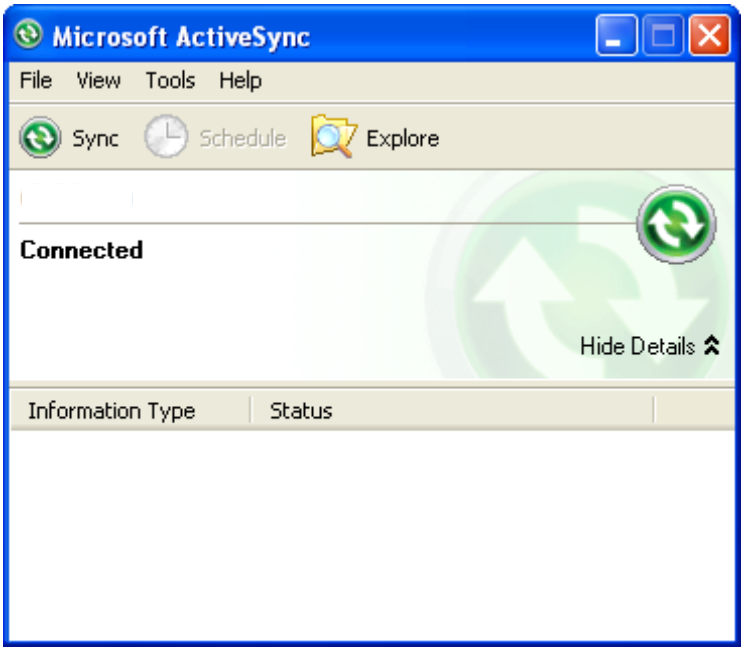
- RP1300 AC adapter
- USB to micro-USB cable

To establish an ActiveSync partnership

1. Download ActiveSync from the Microsoft web site and install ActiveSync on your PC. When installation is complete, the Get Connected dialog box appears.


Get Connected
Get Connected
To connect your device to this PC:
1. Connect the cable to the PC
2. Turn on the device
3. Connect the device to the cable
ActiveSync should automatically detect your device.
If your device is not automatically detected, click Next.
If you are using infrared (IR) or Bluetooth, click Help.
< Back
Next >
Cancel
Help

2. Follow the onscreen instructions to establish a partnership. When the partnership is established, the Microsoft ActiveSync screen appears on your PC.



Connecting the RP1300 to Your Network

The RP1300 is a versatile mobile computer that you can easily add to your wireless or wired data collection network. You can connect your RP1300 using:

- 802.11 radio communications.
- Bluetooth communications.
- USB communications.

Note: The RP1300 radios are disabled when the battery is low. Attach a charger or replace the battery to re-enable the radios.

Connecting the RP1300 Using WIFI Communications

Make sure all components with antennas are at least 30 cm (1 ft.) apart when power is applied. Failure to comply could result in equipment damage.

Your RP1300 has an 802.11 radio to transfer data using wireless communications. This section assumes that your wireless network is set up, including your access points.

To configure 802.11 radio parameters

1. Tap Start > Settings > Connections > Wireless Manager > WI-FI status is changed to ON.

2. Menu > Wi-Fi Settings. The Configure Wireless Networks page appears.

3. If the Network you want to connect to is available in the wireless networks list, tap the network name and proceed to Step 4.

If the Network you want to connect to is not in the wireless networks list:

- Tap **Add New**.
- In the **Network Name** field, type in the name of your network and then tap **Next**. The Configure Network Authentication page appears.

4. From the Authentication list, choose either **Open**, **Shared**, **WPA**, **WPA-PSK**, **WPA2**, or **WPA**-PSK.
   - If you choose **Open** or **Shared**, **Data Encryption** is automatically set to WEP and the key is automatically provided.
   - If you choose **WPA**, Data Encryption is automatically set to **TKIP**.
   - If you choose **WPA2**, **Data Encryption** should be set to **AES**.

• If you choose **WPA-PSK**, **Data Encryption** is automatically set to **TKIP** and you need to enter a **Network key.**

• If you choose **WPA2-PSK**, **Data Encryption** should be set to AES and you need to enter a **Network key**.

5. Tap Next.

6. For EAP type, select either PEAP or Smart Card or Certificate from the list and tap Finish. You return to the Configure Wireless Networks page.

7. Tap Connect. The RP1300 prompts you to enter this network information:
   - User name
   - Password
8. Tap OK. Your device connects to the network.

9. Make sure that your RP1300 is talking to the network and that the network can see your RP1300. If you are connected to the wireless network you will see a connected icon in navigation bar and you will see the name of your network next to Wi-Fi in the Wireless Manager.

Wireless LAN is optional. You can only use WLAN, When the WLAN module is built in to the device

Connecting the RP1300 Using Bluetooth Communications

You RP1300 is Bluetooth™-enabled, which lets you connect to other Bluetooth devices, such as printers. You need to turn on the Bluetooth radio before you can discover and connect to other Bluetooth devices. By default, the radio is turned off.

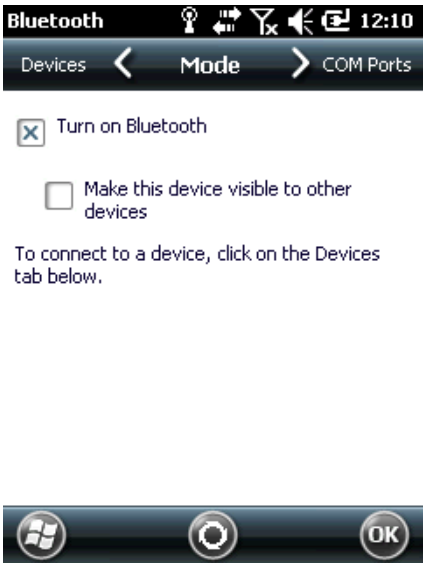
Caution

Bluetooth is optional. Device without built-in Bluetooth can not use Bluetooth service.
Bluetooth support the transmission and reception of files between the serial connecting service and Windows Mobile device.

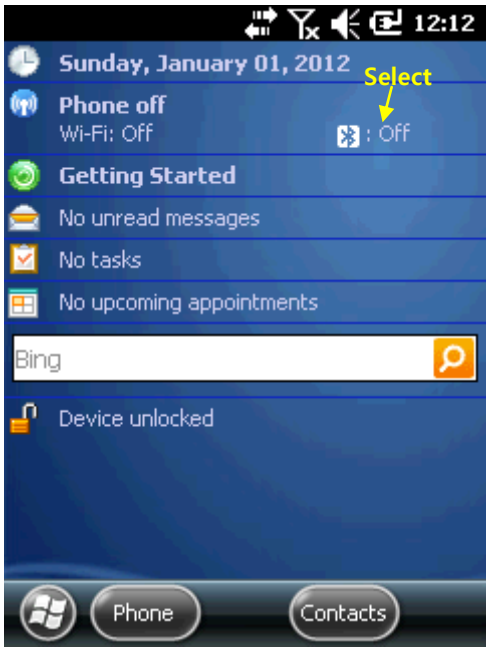
To turn on the Bluetooth radio

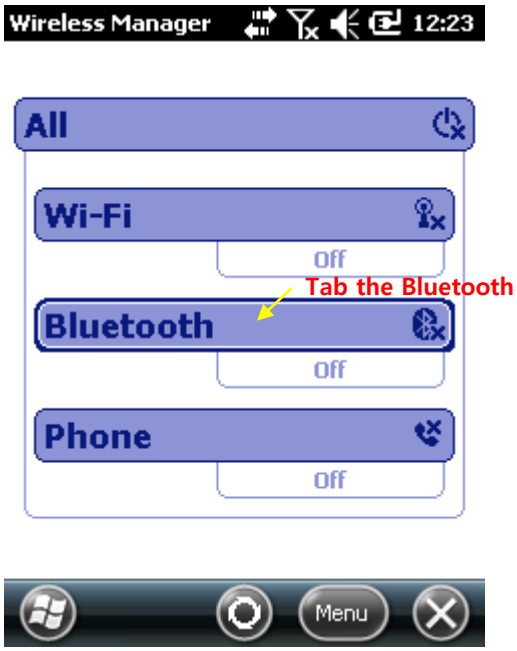
1 Tap **Start** > **Settings** >**Bluetooth** > the **Mode** tab.

2 Tap the **Turn on Bluetooth** checkbox.



Or Tap the **Bluetooth**.





3 (Optional) If you want your RP1300 to be visible to other Bluetooth devices, tap **Make this device visible to other devices**.

4 Tap **ok**.

The Bluetooth radio maintains its current state through a reset or hard reset and maintains virtual COM ports. If you clean boot your RP1300, you need to recreate pairings to devices.

Configuring the Phone

The RP1300 supports two types of mobile wireless phone technology:

- HSDPA
- UMTS

With the radio module installed in the RP1300, you can send and receive telephone calls as well as transmit data through wide-area (WAN) cellular networks.

The RP1300 provides a phone speaker, microphone, and speakerphone. It also supports the use of a Bluetooth headset or hands-free kit. The factory default setting for the phone is disabled.

After you have turned on the phone and activated with the wireless carrier of your choice, you can customize the features of the phone and network settings.

Turning On the Phone Using the Wireless Manager

You can use the Wireless Manager to enable and disable Bluetooth, Wi-Fi, and the phone on your RP1300.

To turn on the phone using the wireless manager

1 Tap **Start** > **Settings** > **Connections** > **Wireless Manager**.

2. In the Wireless Manager, tap **Phone**. The phone turns on.

3. Tap **Done** to close the Wireless Manager.

Blue-Tooth that can be used simultaneously with Wi-FI

RP1300 Series Bluetooth and Wi-Fi can be used at the same time using the wireless manager.

To turn on the Blue-Tooth and Wi-fi using the wireless manager

1 Tap **Start** > **Settings** > **Connections** > **Wireless Manager**.

2. In the Wireless Manager, tap Bluetooth and Wi-fi. The Bluetooth and Wi-Fi turns on.
   Wi-Fi setting see **(Connecting the RP1300 Using WIFI Communications page 60)**
   Bluetooth setting see**(Connecting the RP1300 Using Bluetooth Communications page-62)**

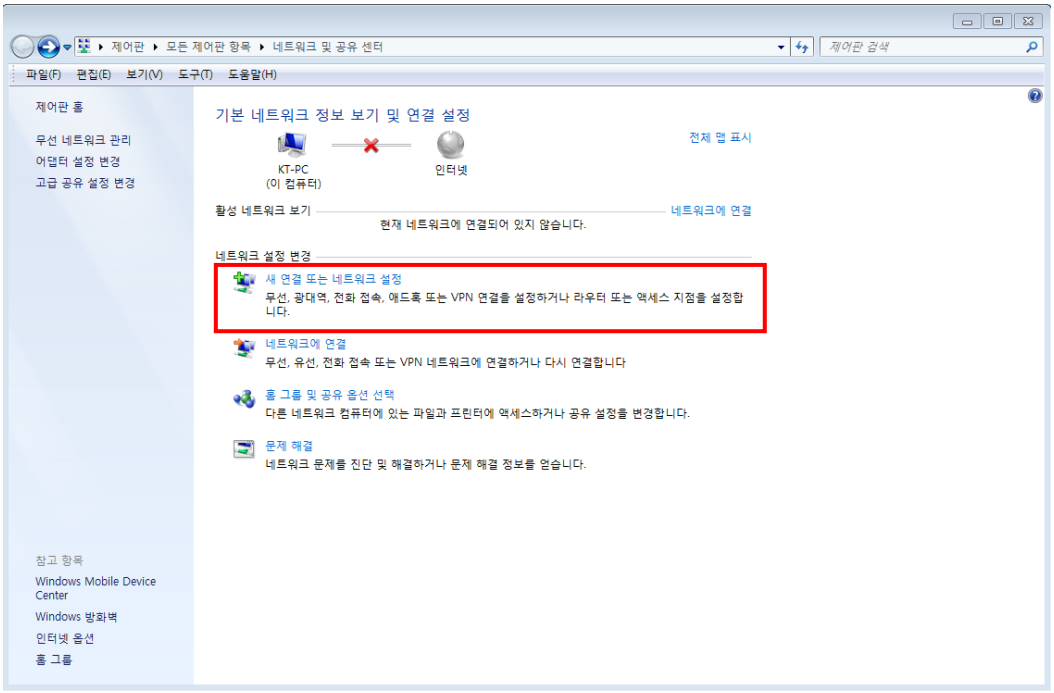
3. Tap **Done** to close the Wireless Manager

Using Internet Sharing

Internet Sharing allows you to setup a connection from your laptop to your mobile phones data connection.

From here the instructions are simple;

1. Start the application on you mobile phone. It will probably remind you that you're starting the Bluetooth radio and ask you to confirm
2. Next go to your laptop Bluetooth devices and add the mobile device. In most cases you should create a pin when prompted, I usually use 1234.
3. Once you've connected the Bluetooth device you need to go to the network and sharing center and click setup a new connection


제어판 ▸ 모든 제어판 항목 ▸ 네트워크 및 공유 센터
제어판 검색
파일(F) 편집(E) 보기(V) 도구(T) 도움말(H)
제어판 홈
무선 네트워크 관리
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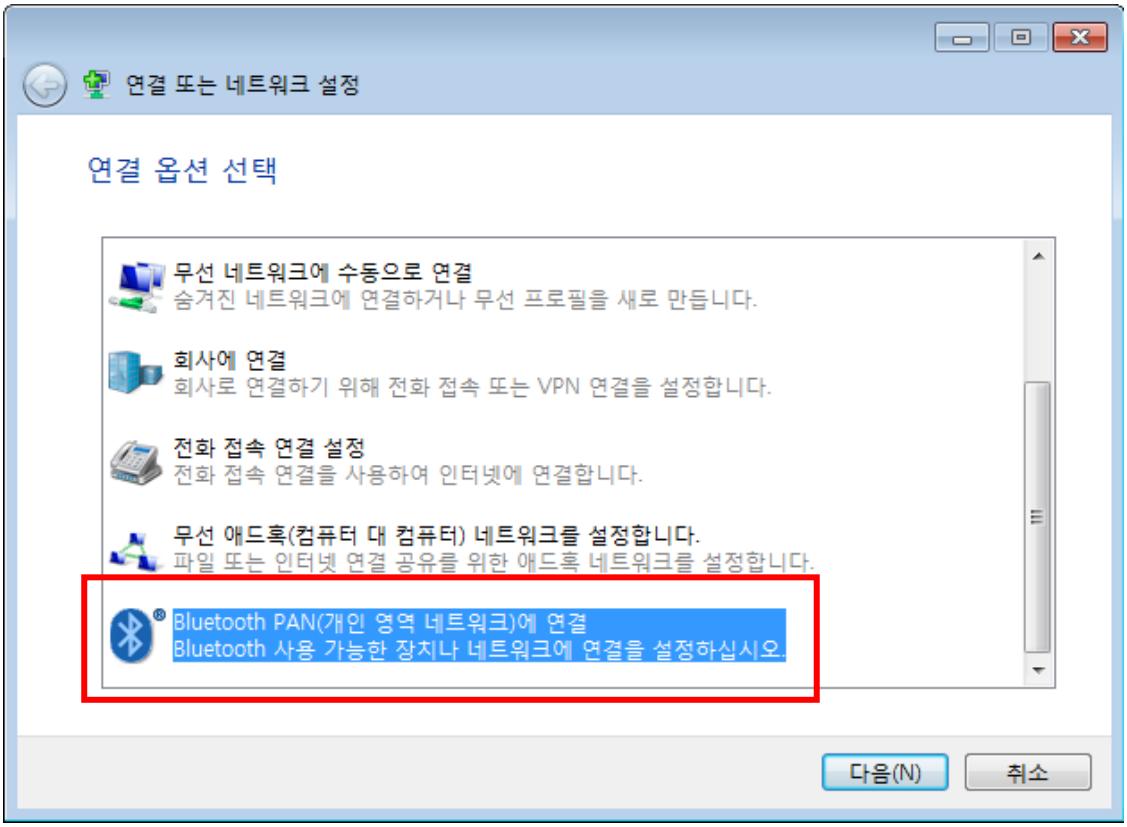
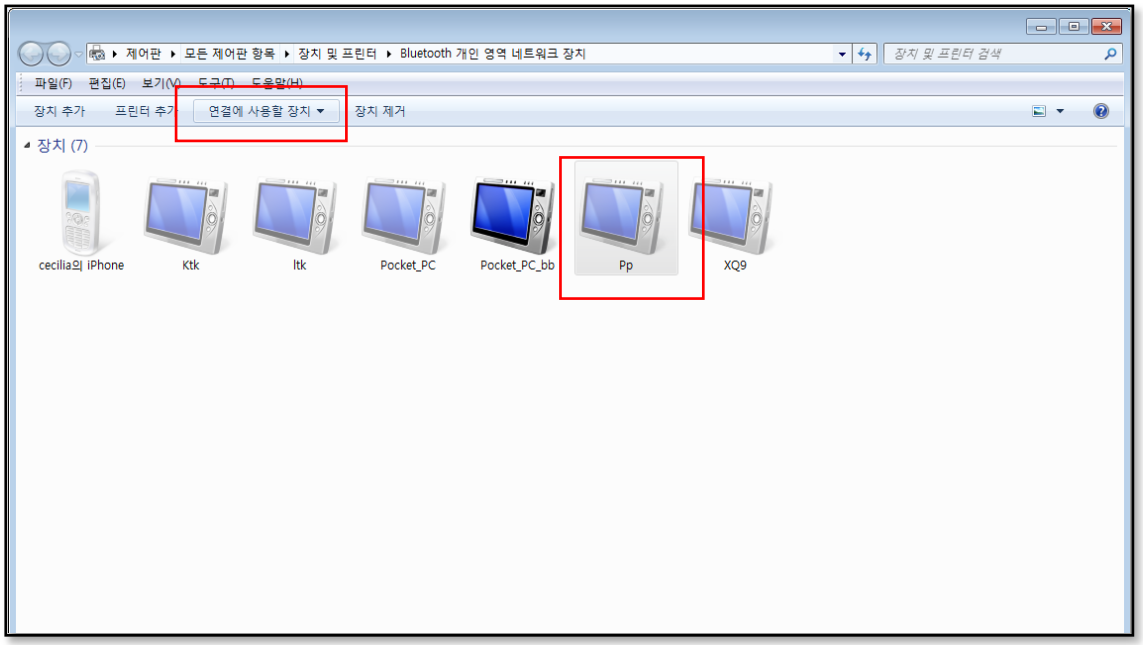
고급 공유 설정 변경
기본 네트워크 정보 보기 및 연결 설정
전체 맵 표시
KT-PC
(이 컴퓨터)
인터넷
활성 네트워크 보기
네트워크에 연결
현재 네트워크에 연결되어 있지 않습니다.
네트워크 설정 변경
새 연결 또는 네트워크 설정
무선, 광대역, 전화 접속, 애드혹 또는 VPN 연결을 설정하거나 라우터 또는 액세스 지점을 설정합니다.
네트워크에 연결
무선, 유선, 전화 접속 또는 VPN 네트워크에 연결하거나 다시 연결합니다
홈 그룹 및 공유 옵션 선택
다른 네트워크 컴퓨터에 있는 파일과 프린터에 액세스하거나 공유 설정을 변경합니다.
문제 해결
네트워크 문제를 진단 및 해결하거나 문제 해결 정보를 얻습니다.
참고 항목
Windows Mobile Device Center
Windows 방화벽
인터넷 옵션
홈 그룹

4. Select setup a new connection, and all going well you should see 'Connect to a Bluetooth PAN



5. Hit connect and you should now be connected to the internet via your mobile!



Making a Phone Call

After you turn on your phone, you are ready to start making phone calls. The icon in the navigation bar will change to indicate that the radio is now active.

To make a phone call

1. Tap **Start** > **Phone**.
2. Tap the keys to enter the telephone number you want to call.
3. Tap the **Talk** button.

Installing Applications

Use this chapter to understand the guidelines for applications for use on the RP1300.

Installing Applications on the RP1300

There are several ways you can install applications on your mobile computer:

- You can package your application as a cabinet (.cab) file.
- If you have a simple application, you may only need to deliver the .exe file.
- You can copy a directory structure that contains the application, supporting files, DLLs, images, and data files.

Gen2wave recommends using .cab files to install your applications. The mobile computer uses standard Windows Mobile .cab files and will install third-party .cab files. You can have your .cab files place your application in any of these memory locations on the mobile computer:

- The Object Store.
- The optional microSD card. Depending on available disk space, you may want to consider installing you application files on the microSD card. Using a microSD card creates the Storage Card folder on the RP1300.
- The non-volatile Flash File Store. Applications and data in the Flash File Store will persist through a clean boot. Since the flash in the system has a limited number of write cycles, do not use the Flash File Store for excessive writing.

There are several ways you can install files and applications on the RP1300:

- ActiveSync
- microSD card

The following sections explain how to use each one of these processes to install your application on the computer.

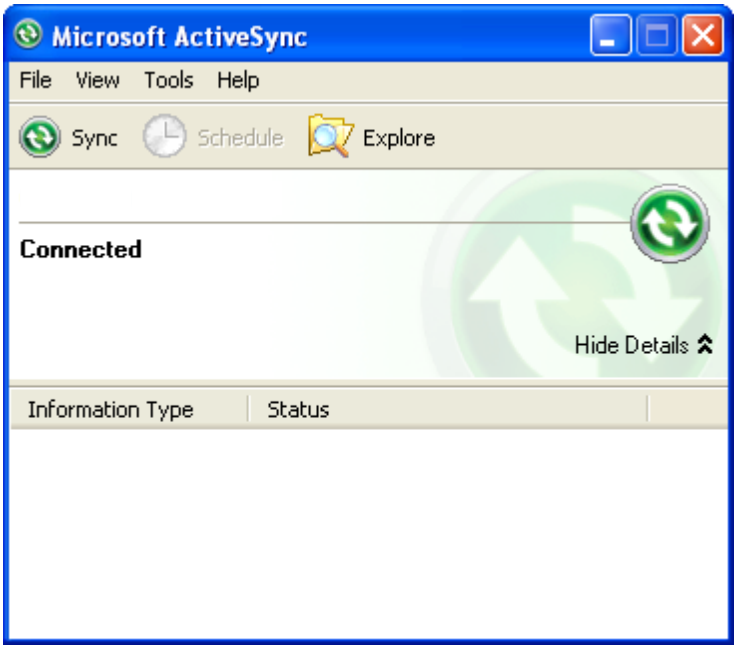
Installing Applications Using Microsoft ActiveSync

You can send applications from your PC to your RP1300 using Microsoft ActiveSync. To download ActiveSync or the Windows Mobility Center.

To install an application using Microsoft ActiveSync

1 On your PC, copy the .cab file you want to download to your RP1300.

2 Create an ActiveSync connection between your PC and RP1300. For help, see **"Connecting the RP1300 to a PC"**.



3 Click **Explore**. The Mobile Device window opens.

4 Double-click My Windows Mobile-Based Device.

5 Navigate to the folder you want to copy the .cab file to, and paste the .cab file in the folder.

6 On your RP1300, tap **Start > Programs > File Explorer** and navigate to the location of the .cab file.

7 Tap the .cab file to install it.

Installing Applications Using a microSD Card

You can also use a microSD card to install applications.

To install applications using the microSD card

1 Suspend the RP1300 and remove the microSD card.

2 Insert the microSD card into a microSD adapter card and then place it in the storage card reader connected to your PC.

3 Copy your application file to the microSD card.

4 Remove the microSD card from the adapter card and insert it into the RP1300.

5 On your RP1300, navigate to the storage card folder and run your application.